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**(54) POWER SOURCE CIRCUIT**

(57) Abstract:

PURPOSE: To realize a protection circuit which prevents a component from being damaged with an overcurrent in the case of a load short-circuit and a simple control circuit which is combined with the protection circuit to cut off the negative voltage power source circuit of the power source circuit used for

various electronic equipments.

CONSTITUTION: A resistance 16 is connected to +Vcc2 and the base of a transistor(TR) 21, a resistance is connected to -Vcc1 and the base of a TR 21, and a capacitor 18 is connected between the base of the TR 21 and the ground. The emitter of the TR 21 is grounded and the collector is connected to the -Vcc1 and the base of a TR 13, whose emitter is connected to the +Vcc2 while the collector is connected to the base of a TR 6 to constitute the protection circuit for the load short-circuit of the negative voltage power source circuit. Further, the anode of a diode is connected to the collector of the TR 21 to constitute the control circuit which cuts off the negative voltage power source circuit.

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